



# EARTHQUAKE ENGINEERING RESEARCH INSTITUTE

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## Final Technical Report

USGS Award Number: G16PX01247

Title of the Award: **EERI Spectra Special Edition - 2015 Nepal Earthquake  
Prep/Printing/Production Support**

Award Dates: 10/01/2016 to 09/30/2017

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### **Background about *Earthquake Spectra***

*Earthquake Spectra*, the professional quarterly journal of the Earthquake Engineering Research Institute (EERI), was inaugurated in 1984. EERI established *Earthquake Spectra* with the purpose of improving the practice of earthquake hazards mitigation, preparedness, and recovery. It is intended to serve the informational needs of the diverse professionals engaged in earthquake loss reduction: civil, geotechnical, mechanical, and structural engineers; geologists, seismologists, and other earth scientists; architects and city planners; public officials; social scientists; and researchers in all these disciplines. *Spectra* serves as the publication of record for the development of earthquake engineering practice, earthquake codes and regulations, earthquake public policy, and earthquake investigation reports.

The journal's current impact factor is 2.981, the highest among earthquake engineering journals globally. The success of the journal can be attributed to the researchers who've submitted their work to *Earthquake Spectra* and to the amazing editorial staff and reviewers.

Manuscripts published in *Earthquake Spectra* are peer reviewed. The manuscript submission and peer review process is handled electronically, with authors, journal staff, the editorial board, and reviewers all participating. More information about the journal can be found at <http://earthquakespectra.org/>.

In addition to the quarterly issues produced in February, May, August, and November, special issues are occasionally produced in addition to the regular issues. Twenty-seven special issues have also been produced by the journal during its history, including the new online issue released for the 2015 Gorkha, Nepal, earthquakes.

### **Special Issue on the 2015 Gorkha, Nepal, Earthquake**

In keeping with its mission to improve the practice of earthquake hazard mitigation, preparedness, and recovery, *Earthquake Spectra* published a special issue examining the 2015 Gorkha, Nepal, earthquake.

The *Earthquake Spectra* Special Issue on the 2015 Gorkha, Nepal, earthquake is posted on the *Earthquake Spectra* website at <http://earthquakespectra.org/toc/eqsa/33/S1> and can be downloaded in pdf form as a full issue or as individual papers. This online-only issue of the journal provides a compendium of research papers on the Gorkha earthquake, organized into five topics: (1) seismology, ground motion, and geotechnical issues; (2) lifelines; (3) buildings; (4) cultural heritage structures; and (5) social science and public policy–related topics. The papers in this special issue provide assessments and lessons on these topics, which can help aid in understanding the short- and long-term effects of this event, and provide transferable lessons for seismic mitigation efforts in the United States and around the world.

The 466-page issue includes 21 technical papers in addition to an *Overview of the 2015 Gorkha, Nepal, Earthquake and the Earthquake Spectra Special Issue* provided by the editorial team. The guest editorial team included Bret Luzundia, Rachel A. Davidson, Youssef M. A. Hashash, and Robert B. Olshansky.

This special issue was underwritten by contributions from the Federal Emergency Management Agency, FM Global, the U.S. Geological Survey, the World Bank's Global Facility for Disaster Reduction and Recovery, and the Earthquake Engineering Field Investigation Team. EERI's Board of Directors also made personal financial contributions in support of this special issue.

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